

RE: **MATHES ASPHALT COMPANY, LLC 061-15702-05223**
TO: Interested Parties / Applicant **December 23, 2002**
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, **within (18) eighteen days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) the date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for consideration at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosure



Governor

Lori F. Kaplan
Commissioner

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

Mathes Asphalt Company, LLC (Portable)

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F061-15702-05223	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 23, 2002 Expiration Date: December 23, 2007

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Quarterly Deviation and Compliance Monitoring Report Form

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a portable asphalt plant.

Authorized Individual:	Mr. Jeff Mathes, President
Initial Source Address:	2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address:	2190 Old Highway 135 South, Corydon, Indiana 47112
SIC Code:	2951
Source Location Status:	Harrison
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This portable source consists of the following emission units and pollution control devices:

One (1) hot mix asphalt plant, with a maximum throughput capacity of 255 tons per hour, consisting of the following emission units:

- (a) One (1) natural gas-fired hot oil heater (identified as H-1), having a maximum heat input capacity of 2.2 MMBtu per hour and using No. 2 fuel oil with a maximum sulfur content of 0.5% by weight as an alternate fuel.
- (b) One (1) fuel oil-fired asphalt dryer having a maximum heat input capacity of 120 MMBtu per hour and a maximum throughput capacity of 255 tons per hour. Particulate matter emissions are controlled by a baghouse (identified as BH-01), exhausting at stack S001. The dryer is fired on No. 2 fuel oil with a maximum sulfur content of 0.5% by weight.
- (c) One (1) aggregate storage area consisting of uncovered storage piles of sand and gravel.
- (d) Two (2) hot asphalt storage bins each with a maximum capacity of 125 tons.
- (e) Material handling and screening equipment capable of handling 255 tons of aggregate per hour and consisting of mechanical conveyors, elevators, screens, and mixers.
- (f) One (1) hot mix asphalt truck loading facility with a maximum capacity of 255 tons of product per hour.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This portable source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Two (2) emulsion storage tanks (identified as T-1 and T-2) each with maximum capacities of 15,000 gallons.
- (b) One (1) fuel oil storage tank (identified as T-3) with a maximum storage capacity of 10,000 gallons used to store fuel oil No.2.
- (c) Paved roads and parking lots with public access.

A.4 FESOP Applicability [326 IAC 2-8-2]

This portable source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also

furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality

100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within thirty (30) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP and the PMP extension notification do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)
or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]
 - (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]**

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit [326 IAC 2-8-4(5)(C)]. The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement [326 IAC 2-8-8(a)].
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

- (1) A timely renewal application is one that is:

- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;

- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable;
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD));
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on July 15, 2002. The plan is included as Attachment A.

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit(s) vented to the control equipment is **(are)** in operation.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.

- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.10 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within thirty (30) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within thirty (30) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial thirty (30) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately

ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within 180 days from the date on which this source commences operation).

The ERP does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

**C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any

other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report covered the period commencing on the date of issuance of the original FESOP and ended on the last day of the reporting period. All subsequent reporting periods shall be based on calendar years.

Portable Source Requirement

C.22 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAQ and a

"Relocation Site Approval" letter must be obtained before relocating. The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall also notify the applicable local air pollution control agency when relocating to or from one of the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Division of Air Pollution)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Air Pollution Control Agency)
 - (6) St. Joseph County - (St. Joseph County Health Department)
 - (7) Vigo County - (Vigo County Air Pollution Department)
- (c) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

One (1) hot mix asphalt plant, with a maximum throughput capacity of 255 tons per hour, consisting of the following emission units:

- (a) One (1) natural gas-fired hot oil heater (identified as H-1), having a maximum heat input capacity of 2.2 MMBtu per hour and using No. 2 fuel oil with a maximum sulfur content of 0.5% by weight as an alternate fuel.
- (b) One (1) fuel oil-fired asphalt dryer having a maximum heat input capacity of 120 MMBtu per and a maximum throughput capacity of 255 tons per hour. Particulate matter emissions are controlled by a baghouse (identified as BH-01), exhausting at stack S001. The dryer is fired on No. 2 fuel oil with a maximum sulfur content of 0.5% by weight.
- (c) One (1) aggregate storage area consisting of uncovered storage piles of sand and gravel.
- (d) Two (2) hot asphalt storage bins each with a maximum capacity of 125 tons.
- (e) Material handling and screening equipment capable of handling 255 tons of aggregate per hour and consisting of mechanical conveyors, elevators, screens, and mixers.
- (f) One (1) hot mix asphalt truck loading facility with a maximum capacity of 255 tons of product per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Construction Conditions

General Construction Conditions

- D.1.1 This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
- D.1.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.
- D.1.3 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.
- D.1.4 The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration and Development Section, verifying that the emission units were constructed as proposed in the application.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

- D.1.5 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 12-1, apply to the asphalt plant except when otherwise specified in 40 CFR Part 60, Subpart I.

D.1.6 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 2-2] [40 CFR 52.21][326 IAC 2-3] [40 CFR 60, Subpart I][326 IAC 12]

- (a) Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the drum-mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). This is equivalent to a particulate matter emission rate of 13.4 pounds per hour at an exhaust flow rate of 52,000 cubic feet per minute (cfm).
- (b) Pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I):
 - (1) particulate matter emissions from the asphalt plant shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf), and
 - (2) the visible emissions from the plant shall not exceed 20 percent opacity.

Compliance with Conditions (a) and (b) will make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration), 40 CFR 52.21 and 326 IAC 2-3 not applicable.

D.1.7 FESOP Limits [326 IAC 2-8-4] [326 IAC 2-2][326 IAC 2-3]

- (a) Pursuant to 326 IAC 2-8-4, the emissions of PM₁₀ from the aggregate dryer/mixer shall be limited to 0.023 pounds of PM₁₀ per ton of asphalt produced. This is equivalent to PM-10 emissions of less than 25.7 tons per twelve (12) consecutive month period. The PM-10 emissions for the whole source are therefore limited to less than 28.2 tons per twelve (12) consecutive month period.
- (b) The input of #2 fuel oil to the dryer shall be limited to 2,676,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is equivalent to sulfur dioxide emissions of 94.4 tons per twelve (12) consecutive month period.
- (c) Pursuant to 326 IAC 2-8-4, the liquid binder used in cold mix asphalt production shall be limited as follows:
 - (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 99 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
 - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 134.6 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
 - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 376.2 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.
 - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 202.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

- (5) Other asphalt with solvent liquid binder shall not exceed 3,762 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
- (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 99.0 tons per twelve consecutive month period with compliance determined at the end of each month.

Compliance with the PM₁₀, SO₂, and VOC limits in Conditions (a), (b) and (c) make the provisions of 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (PSD), 40 CFR 52.21, and 326 IAC 2-3 (Emission Offsets) not applicable.

D.1.8 Sulfur Dioxide (SO₂) Emission Limitations [326 IAC 7-1.1-1] [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), the SO₂ emissions from the combustion of #2 fuel oil in the asphalt dryer shall not exceed five tenths (0.5) pounds per million Btu heat input.

D.1.9 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than 7 percent oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating;
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

D.1.10 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.11 Particulate Matter

In order to comply with Conditions D.1.6 and D.1.7(a), the baghouse (identified as BH-01) for PM and PM₁₀ control shall be in operation at all times when the dryer is in operation.

D.1.12 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 116 MMBtu per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.13 Testing Requirements [326 IAC 2-8-4(3)] [40 CFR 60, Subpart I]

To document compliance with Conditions D.1.6 and D.1.7(a), the Permittee shall perform PM and PM-10 testing within 60 days of achieving the maximum production rate, but not later than 180 days after initial startup. These tests shall be performed using methods as approved by the Commissioner. PM-10 includes filterable and condensable PM-10.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.14 Visible Emissions Notations

-
- (a) Visible emission notations of the rotary dryer stack exhaust (identified as S001) shall be performed once per shift during normal daylight. A trained employee shall record whether emissions are normal or abnormal.
 - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.15 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the dryer at least once per shift when the dryer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan-Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.16 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the dryer. A baghouse inspection shall be performed every three months. All defective bags shall be replaced.

D.1.17 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.18 Record Keeping Requirements

- (a) To document compliance with Condition D.1.7(b) and D.1.8, the Permittee shall maintain records in accordance with (1) through (6) below.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications.
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.1.7(c), the Permittee shall maintain the following records to document VOC usage:

- (1) Amount and type of liquid binder used in the production of cold mix asphalt each month.
- (2) Type and VOC content by weight of the liquid binder used in the production of cold mix asphalt each month.
- (3) Amount of VOC used in the production of cold mix asphalt each month.

Records may include: delivery tickets, manufacturer's data, material safety data sheets (MSDS), and other documents necessary to verify the type and amount used. Test results of ASTM tests for asphalt cutback and asphalt emulsion may be used to document volatilization.

- (c) To document compliance with Condition D.1.14, the Permittee shall maintain records of visible emission notations of the dryer stack exhaust (identified as stack S001).
- (d) To document compliance with Condition D.1.15, the Permittee shall maintain once per shift records of the following operational parameters during normal operation:
- (1) Inlet and outlet differential static pressure; and
 - (2) Cleaning cycle operation.
- (e) To document compliance with Condition D.1.16, the Permittee shall maintain records of the results of the inspections required under Condition D.1.16.

- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.19 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.7(b) and D1.7(c) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (a) Two (2) emulsion storage tanks (identified as T-1 and T-2) each with maximum capacities of 15,000 gallons.
- (b) One (1) fuel oil storage tank (identified as T-3) with a maximum storage capacity of 10,000 gallons used to store fuel oil No.2.
- (c) Paved roads and parking lots with public access.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Construction Conditions

General Construction Conditions

- D.2.1 This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
- D.2.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.
- D.2.3 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.
- D.2.4 The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration and Development Section, verifying that the emission units were constructed as proposed in the application.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.5 Volatile Organic Compound Storage Vessels [40 CFR 60, Subpart Kb][326 IAC 12]

- (a) The storage tanks T-1 and T-2 are subject to 40 CFR 60, Subpart Kb (326 IAC 12) because the maximum capacity of each tank is greater than 40m³, the tanks are used to store volatile organic liquids (including petroleum), and construction, reconstruction, or modification of the tanks commenced after July 23, 1984.

Pursuant to 40 CFR 60, Subpart Kb, the Permittee shall maintain records as required by Condition D.2.6.

- (b) Tanks T-1 and T-2 are exempt from the General Provisions (Part 60, Subpart A) and from all other provisions of this subpart, except those listed in Condition D.2.6, because both tanks have maximum capacities less than 75m³ (19,817 gallons).

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.6 Record Keeping Requirements [40 CFR 60, Subpart Kb][326 IAC 12]

Pursuant to 40 CFR 60, Subpart Kb (326 IAC 12), the Permittee shall maintain the following records for Tanks T-1 and T-2 :

- (a) The volatile organic liquid stored in each tank;
- (b) The period of storage;
- (c) The maximum true vapor pressure of the volatile organic liquid during the storage period;
and
- (d) The dimensions of the storage tanks and an analysis showing the capacity of the storage tanks.

The Permittee shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. (Available data on the storage temperature may be used to determine the maximum vapor pressure as indicated in 40 CFR 60.117(b)(e)(1) through (3).

D.2.7 Volatile Organic Compounds (VOC) [326 IAC 8-9]

Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), the Permittee shall maintain a record and submit to the department a report containing the following information for storage tank T-3:

- (a) The vessel identification number.
- (b) The vessel dimensions.
- (c) The vessel capacity.

The Permittee shall keep all records as described for the life of the vessel.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Mathes Asphalt Company, LLC
Initial Source Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
FESOP No.: F061-15702-05223

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Affidavit (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Mathes Asphalt Company, LLC
Initial Source Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
FESOP No.: F061-15702-05223

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Mathes Asphalt Company, LLC
Initial Source Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
FESOP No.: F061-15702-05223
Facility: Asphalt Dryer
Parameter: Fuel Oil No. 2
Limit: 2,676,000 gallons per twelve (12) consecutive month with compliance determined on a monthly basis.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Single Liquid Binder Solvent Quarterly Report

Source Name: Mathes Asphalt Company, LLC
Initial Source Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
FESOP No.: F061-15702-05223
Facility: Asphalt Plant
Parameter: VOC
Limit: Cutback asphalt rapid cure liquid binder usage shall not exceed 99.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt medium cure liquid binder usage shall not exceed 134.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt slow cure liquid binder usage shall not exceed 376.2 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Emulsified asphalt with solvent liquid binder usage shall not exceed 202.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Other asphalt with solvent liquid binder shall not exceed 3,762 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

The following liquid binder solvent was the only liquid binder solvent used over the previous 12 month period: _____ **Limit applicable:** _____

(use of more than one binder requires the use of the "Multiple Liquid Binder Solvents" report form)

Month	Column 1	Column 2	Column 1 + Column 2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this reporting period.
9 Deviation/s occurred in this reporting period.

Deviation has been reported on: _____

Submitted by: _____

Date: _____

Title / Position: _____

Signature: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Multiple Liquid Binder Solvent Quarterly Report

Source Name: Mathes Asphalt Company, LLC
Initial Source Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
FESOP No.: F061-15702-05223
Facility: Asphalt Plant
Parameter: VOC
Limit: 99.0 tons per year
Year:

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Divisor	VOC emitted This Month (tons) for each solvent	VOC emitted This Month (tons)	VOC emitted Previous 11 Months (tons)	This month + Previous 11months =VOC emitted 12 Month Total (tons)
Month 1	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 2	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 3	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				

9 No deviation occurred in this reporting period.

9 Deviation/s occurred in this reporting period.

Deviation has been reported on: _____

Submitted by: _____ Date: _____

Title / Position: _____ Phone: _____

Signature: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Mathes Asphalt Company, LLC
Initial Source Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
Mailing Address: 2190 Old Highway 135 South, Corydon, Indiana 47112
FESOP No.: F061-15702-05223

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Attachment A

Fugitive Particulate Matter Emissions Control Plan

Fugitive Dust Control Plan

Submitted July 15, 2002

- (1) Mathes Asphalt will utilize water suppression on all high traffic roadways throughout the area leading to and surrounding the proposed asphalt facility. Water will be sprayed on these roadways on an as-needed basis contingent upon precipitation events and humidity. It is estimated that a minimum of one (1) water suppression exercise will be necessary on a monthly basis particularly throughout the drier summer months.
- (2) Mathes Asphalt will also utilize water suppression on all aggregate piles, which feed the asphalt operations. Water will be sprayed on these aggregate piles on an as-needed basis contingent upon precipitation events and humidity. It is estimated that a minimum of one (1) water suppression exercise will be necessary on a monthly basis particularly throughout the drier summer months.
- (3) Mathes Asphalt will limit vehicle speed to 10 miles per hour on all roadways throughout the calendar year. This policy will be communicated to all internal truck drivers as well as contractor vehicles. Signage will also be posted in various critical locations throughout the property as a reminder of the 10-mph speed limit.

December 23, 2002

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Federally Enforceable State
Operating Permit (FESOP)**

Source Background and Description

Source Name: Mathes Asphalt Company, LLC
Source Location: 2190 Old Highway 135 South, Corydon, Indiana 47112
County: Harrison
SIC Code: 2951
Operation Permit No.: F061-15702-05233
Permit Reviewer: ERG/AB

The Office of Air Quality (OAQ) has reviewed a FESOP application from Mathes Asphalt Company, LLC relating to the construction and operation of a portable asphalt plant.

New Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

One (1) hot mix asphalt plant, with a maximum throughput capacity of 255 tons per hour, consisting of the following emission units:

- (a) One (1) natural gas-fired hot oil heater (identified as H-1), having a maximum heat input capacity of 2.2 MMBtu per hour and using No. 2 fuel oil with a maximum sulfur content of 0.5% by weight as an alternate fuel.
- (b) One (1) fuel oil-fired asphalt dryer having a maximum heat input capacity of 120 MMBtu per hour and a maximum throughput capacity of 255 tons per hour. Particulate matter emissions are controlled by a baghouse (identified as BH-01), exhausting at stack S001. The dryer is fired on No. 2 fuel oil with a maximum sulfur content of 0.5% by weight.
- (c) One (1) aggregate storage area consisting of uncovered storage piles of sand and gravel.
- (d) Two (2) hot asphalt storage bins each with a maximum capacity of 125 tons.
- (e) Material handling and screening equipment capable of handling 255 tons of aggregate per hour and consisting of mechanical conveyors, elevators, screens, and mixers.
- (f) One (1) hot mix asphalt truck loading facility with a maximum capacity of 255 tons of product per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Two (2) emulsion storage tanks (identified as T-1 and T-2) each with maximum capacities of 15,000 gallons.
- (b) One (1) fuel oil storage tank (identified as T-3) with a maximum storage capacity of 10,000 gallons used to store fuel oil No.2.
- (c) Paved roads and parking lots with public access.

Existing Approvals

No previous approvals have been issued to this source.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
S001	Dryer	35	4	52,000	300
S002	Oil Heater	10	15	8,000	300

Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on June 5, 2002. Additional information was received on July 15, 2002.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (page 1 through 8).

Potential To Emit for the Source

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical

or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	31,278
PM-10	7,263
SO ₂	271.5
VOC	greater than 250
CO	19.1
NO _x	91.5

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

* VOC emissions from asphalt plants are primarily from the use of cut back asphalt and binders. This proposed permit allows the source to use cut back asphalt and binder of varying VOC content. Hence, the PTE for VOC is estimated to be greater than 100 tons per year.

HAP's	Potential To Emit (tons/year)
Formaldehyde	3.5
Other HAPs	6.2
TOTAL	9.7

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM₁₀, VOC, and SO₂ are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Pursuant to 326 IAC 2-8, this source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict PTE to below Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP).
- (c) Fugitive Emissions
This type of operation is not one of the twenty-eight (28) listed source categories. Since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Federally Enforceable State Operating Permit.

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Asphalt Dryer	36.9	Less than 25.7	Less than 95	Less than 99	6.7	32.1	9.7
Oil Heater	0.14	0.14	4.89	0.02	0.34	1.38	Negligible
Paved Roads	Less than 1.0	Less than 1.0	--	--	--	--	--
Conveying/Handling	4.2	1.4	--	--	--	--	--
Total Emissions	Less than 42.3	Less than 28.2	Less than 100	Less than 100	7.04	33.5	9.7

County Attainment Status

The source will initially be located in Harrison County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

This 255 ton per hour asphalt parallel flow drum mix asphalt plant is a portable source initially located in Harrison County. As a portable source the plant can be located in both attainment and nonattainment areas excluding the severe ozone nonattainment areas of Lake and Porter Counties. Therefore, the criteria pollutant emissions, including volatile organic compounds (VOC) which are the precursor pollutants considered when evaluating rule applicability relating to the ozone standards, were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD) (326 IAC 2-2 and 40 CFR 52.21), and the requirements for Emission Offset (326 IAC 2-3).

Portable Source

- (a) Initial Location
This is a portable source and its initial location is 2190 Old Highway 135 South, Corydon, Indiana 47112.
- (b) PSD and Emission Offset Requirements
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.
- (c) Fugitive Emissions

This type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2, 40 CFR 52.21, or 326 IAC 2-3. However, there is an applicable New Source Performance Standard that was in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

- (d) Relocation of Portable Sources [326 IAC 2-14-4] [326 IAC 2-6.1-6(d)(2)]
This permit is approved for operation in all areas of Indiana except in nonattainment areas Lake and Porter Counties. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAQ, and a "Relocation Site Approval" letter must be obtained before relocating.
- (e) Notification of Relocation
The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Division of Air Pollution)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Air Pollution Control Agency)
 - (6) St. Joseph County - (St. Joseph County Health Department)
 - (7) Vigo County - (Vigo County Air Pollution Department)
- (f) Valid Operation Permit
A valid operation permit consists of the permit (F061-15702-05223) and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Federal Rule Applicability

- (a) This source is subject to the New Source Performance Standard (NSPS), 40 CFR 60, Subpart I (326 IAC 12) - Standards of Performance for Hot Mix Asphalt Facilities because it is a new source and manufactures hot mix asphalt by heating and drying aggregate and mixing with asphalt cements. This NSPS requires the source to comply with the following requirements:
 - (1) Particulate matter emissions from the asphalt plant shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf), and
 - (2) The visible emissions from the plant shall not exceed 20 percent opacity.
- (b) Storage tanks T-1 and T-2 are subject to the New Source Performance Standard (NSPS), 40 CFR 60, Subpart Kb (326 IAC 12) - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, because the storage tanks will be constructed after 1984, will be larger than 40 m³ (10,569 gallons), and will be used to store volatile organic compounds. Tanks T-1 and T-2 are exempt from the General Provisions (Part 60, Subpart A) and

from the limits of this subpart because both tanks have a maximum capacity less than 75 m³ (19,817 gallons). Although there are no limits applicable to these storage tanks, the source must comply with the applicable record keeping requirements specified in 40 CFR 60.116b (a) and (b), which require the source maintain records of the dimensions and storage capacity of the tanks.

- (c) The fuel oil storage tank (identified as T-3) is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart Kb), because this tank has a maximum capacity of less than 10,567 gallons (40 cubic meters).
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it is a portable source that has the potential to emit more than ten (10) tons per year of VOC or NO_x in any one of the specifically listed counties (except Lake and Porter counties). Pursuant to this rule, the Permittee must submit an annual emission statement for the source. The statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6 and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8).

326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to the provisions of 326 IAC 6-4 because it has the potential to emit particulate matter to the extent that some particulate matter may pass beyond the property boundary. Pursuant to 326 IAC 6-4, the source shall not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This new portable asphalt plant is subject to the requirements of 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), because it is a new source of fugitive particulate matter constructed after December 13, 1985. The source submitted their control plan on July 15, 2002. A copy of the plan is included as Attachment A to the permit.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 2-8-4 (FESOP)

- (a) The unlimited potential to emit PM_{10} from this asphalt plant is greater than 100 tons per year. The source has agreed to limit emissions of PM_{10} from the entire source to less than 100 tons per year by limiting the PM_{10} emissions from the dryer to less than 0.023 pounds of PM_{10} per ton of asphalt produced. This is equivalent to PM_{10} emissions for the dryer of less than 25.7 tons per twelve (12) consecutive month period. The PM_{10} emissions for the entire source are, therefore, limited to less than 100 tons per twelve (12) consecutive month period. The source will use a baghouse to comply with this limit.
- (b) The potential to emit SO_2 from this asphalt plant is greater than 100 tons per year. The principle source of SO_2 emissions comes from the burning of fuel oil No.2 in the aggregate dryer. The source has agreed to voluntarily limit the amount of fuel oil burned in the dryer such that the SO_2 emissions from the entire source are less than 100 tons per year. Therefore, the input of fuel oil No.2 to the aggregate dryer shall be limited to 2,676,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

The fuel usage limit was calculated as follows:

Total SO_2 Emissions = 100 tons/year
 SO_2 Emissions from oil heater = 4.9 tons/year
Maximum SO_2 Emissions allowed from Dryer = 95 tons/year
 SO_2 Emission Factor for No. 2 fuel oil combustion = 71 lbs/kgal
Fuel Limit for Dryer = (95 tons/yr) (2000 lb/ton)/(71 lbs/kgal) = 2,676 kgal

Compliance with the fuel usage limitation will limit the emissions of sulfur dioxide from the entire source to less than 100 tons per year, and makes the provisions of 326 IAC 2-2 (Prevention of Significant Deterioration), 40 CFR 52.21, 326 IAC 2-3 (Emission Offset) and 326 IAC 2-7 (Part 70 Permit Program) not applicable.

- (c) Pursuant to 326 IAC 2-8-4, the liquid binder used in cold mix asphalt production shall be limited as follows:
- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 99 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 134.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 376.2 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 202.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (5) Other asphalt with solvent liquid binder shall not exceed 3,762 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with

compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 99.0 tons per twelve consecutive month period with compliance determined at the end of each month.

Compliance with Conditions (a), (b) and (c) above makes 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (40 CFR 52.21), and 326 IAC 2-3 not applicable to this source.

326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-3 (Emission Offsets)

- (a) Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). This is equivalent to a particulate matter emission rate of 13.4 pounds per hour at an exhaust flow rate of 52,000 cubic feet per minute (cfm). Compliance with this limit will make the source a minor source under PSD and emission offset, and will ensure compliance with the New Source Performance Standards 40 CFR 60, Subpart I (326 IAC 12). Use of the baghouse (identified as BH-1) will ensure compliance with this limit.
- (b) Pursuant to 326 IAC 2-8-4 (b) (FESOP), the PM₁₀, SO₂ and VOC emissions for the entire source are limited to less than 100 tons per year. Compliance with these FESOP limits also ensures that 326 IAC 2-2 (PSD), 40 CFR 52.21, and 326 IAC 2-3 are not applicable.

State Rule Applicability - Asphalt Plant

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The operation of the asphalt plant will emit less than 10 tons per year of any single HAP and less than 25 tons per year of any combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6-1-2 (Particulate Limitations)

As a portable source which can be located in all counties except Lake and Porter Counties, this source is subject to the provisions of 326 IAC 6-1-2. Pursuant to this rule, particulate matter emissions from the asphalt plant shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).

This is equivalent to 13.4 pounds per hour and 58.6 tons per year at an exhaust gas flow rate of 52,000 actual cubic feet per minute (acfm).

Compliance with this requirement also makes 326 IAC 2-2 (Prevention of Significant Deterioration), 40 CFR 52.21, and 326 IAC 2-3 not applicable.

326 IAC 6-3 (Process Operations)

Pursuant to 326 IAC 6-3-1(b), this asphalt plant is not subject 326 IAC 6-3 (Process Operations) because the plant is subject to the New Source Performance Standards 40 CFR 60, Subpart I and 326 IAC 6-1-2(a).

326 IAC 8-1-6 (New Facilities - General Reduction Requirements)

Although the asphalt manufacturing facility has potential VOC emissions above the 25 tons per year threshold, this source is not subject to 326 IAC 8-1-6 because it is subject to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving).

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

Pursuant to 326 IAC 8-5-2, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than 7 percent oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating;
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

This rule applies to the asphalt plant because the plant will be constructed after January 1, 1980, the applicability date for this rule.

326 IAC 7-1.1-2 (Sulfur Dioxide (SO₂) Emission Limitations)

The dryer is subject to 326 IAC 7-1.1-2 because its potential to emit sulfur dioxide is greater than 25 tons per year. Pursuant to 326 IAC 7-1.1-2, the SO₂ emissions from the dryer shall not exceed five tenths (0.5) pounds per MMBtu heat input. This is equivalent to 0.5% sulfur in the fuel oil.

State Rule Applicability - Storage Tanks T-1, T-2, and T-3

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

Pursuant to 326 IAC 8-9-1, storage tank T-3 is subject to the requirements of 326 IAC 8-9-1 because it could relocate to Clark and Floyd Counties. Since the capacity of this storage tank is less than 39,000 gallons, the tank is only subject to the reporting and record keeping requirements of the rule provided in 326 IAC 8-9-6(a) and (b).

Storage tanks T-1 and T-2 are exempt from this rule by 326 IAC 8-9-2(8), because these storage tanks are subject to 40 CFR 60, Subpart Kb.

Testing Requirements

To document compliance with the PM and PM₁₀ limits, the source is required to perform PM and PM₁₀ testing within 60 days of achieving the maximum production rate, but not later than 180 days after initial startup. The tests shall be performed using methods as approved by the Commissioner. PM₁₀ includes filterable and condensable PM₁₀.

These stack tests are required to ensure compliance with 40 CFR 60, Subpart I, 326 IAC 2-8, 326 IAC 2-2, and 326 IAC 2-3.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The dryer has applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of the dryer stack exhaust (identified as S001) shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
 - (b) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the dryer at least once per shift when the dryer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with the Compliance Response. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
 - (c) An inspection shall be performed each calendar quarter of all bags controlling the dryer. A baghouse inspection shall be performed every three months. All defective bags shall be replaced.

- (d) In the event that bag failure has been observed:
- (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.
 - (2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency.

These monitoring conditions are necessary because the baghouse used to control emissions from the dryer must operate properly to ensure compliance with 326 IAC 2-8 (FESOP); 326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration); 326 IAC 2-3 (Emission Offsets); and 40 CFR 60, Subpart I.

Conclusion

The operation of this asphalt plant shall be subject to the conditions of the attached (FESOP No.: F061-15702-05223).

Appendix A: Emissions Calculations
120 MMBtu per hour Asphalt Dryer (No. 2 Fuel Oil Combustion)
Company Name: Mathes Asphalt Company, LLC
Address City IN Zip: 2190 Old Highway 135 South, Corydon, Indiana 47424
CP: 061-15702
Plt ID: 061-05223
Reviewer: ERG/AB
Date: July 3, 2002

Page 1 of 7 TSD App A

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

120.0

7508.6

Emission Factor in lb/kgal	Pollutant				
		SO2 71 (142.0 S)	NOx 24.0	VOC 0.2	CO 5.0
Potential Emission in tons/yr		266.6	90.1	0.8	18.8

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 3. The emissions of SO2, NOx, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

See next page for HAPs emissions calculations.

Appendix A: Emission Calculations
120 MMBtu per hour Asphalt Dryer (No. 2 Fuel Oil Combustion)
Company Name: Mathes Asphalt Company, LLC
Address City IN Zip: 2190 Old Highway 135 South, Corydon, Indiana 47424
CP: 061-15702
Pit ID: 061-05223
Reviewer: ERG/AB
Date: July 3, 2002

HAPs - Metals					
Emission Factor in lb/MMBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	2.10E-03	1.58E-03	1.58E-03	1.58E-03	4.73E-03

HAPs - Metals (continued)				
Emission Factor in lb/MMBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	1.58E-03	3.15E-03	1.58E-03	7.88E-03

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (MMBtu/hr)*Emission Factor (lb/MMBtu)*8,760hrs/yr / 2,000lb/ton

Appendix A: Emission Calculations**Emission Calculations for PM/PM-10 Emissions from Asphalt Manufacturing****Conventional Batch Mix Plant: Asphalt Dryer****Company Name: Mathes Asphalt Company, LLC****Address City IN Zip: 2190 Old Highway 135 South, Corydon, Indiana 47112****CP: 061-15702****Plt ID: 061-05223****Reviewer: ERG/AB****Date: July 3, 2002**

Maximum Capacity
255 tons/hr

Uncontrolled Emission Factors	
PM	28 lbs/ton
PM-10	6.5 lbs/ton
Total HAPs	0.0087 lbs/ton
Single Largest HAP	0.0031 lbs/ton

Controlled Emission Factors	
PM	0.033 lbs/ton
PM-10	0.023 lbs/ton
Total HAPs	0.0087 lbs/ton
Single Largest HAP	0.0031 lbs/ton

See page 1 and 2 of the appendix for emission estimates for the other pollutants of combustion from the dryer.

Uncontrolled	PM	PM-10	HAPs	Single Largest HAP
Emissions (tons/yr)	31273.2	7259.85	9.7	3.5

Controlled	PM	PM-10	HAPs	Single Largest HAP
Emissions (tons/yr)	36.9	25.7	9.7	3.5

Methodology: (Maximum capacity)*(8760 hr/yr)*(emission factor)*(1 ton/2000 lbs)

* Emission factors for an asphalt dryer controlled with a fabric filter from AP-42 Chapter 11.1, Table 11.1-3 are 0.033 lb/ton and 0.023 lbs/ton for PM and PM-10, respectively.

* Emission factor for HAPs is from AP-42 Chapter 11.1, Table 11.1-9.

* The largest HAP is formaldehyde.

Appendix A: Emission Calculations**Combustion of Fuel Oil No. 2****MMBTU/HR<100****Asphaltic Cement Heater with a maximum heat input capacity of 2.2 MMBtu/hr****Company Name: Mathes Asphalt Company, LLC****Address City IN Zip: 2190 Old Highway 135 South, Corydon,****CP: 061-15702****Pit ID: 061-05223****Reviewer: ERG/AB****Date: July 3, 2002**Heat Input Capacity
MMBTu/hrPotential Throughput
kgals/year

S = Weight % Sulfur

0.5

2.2

137.7

	Pollutant				
	PM/PM10	SO ₂	NO _x	VOC	CO
Emission Factor in lb/kgal	3.3	71 (142.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.227	4.887	1.377	0.023	0.344

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBTu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emission Calculations

Combustion of Fuel Oil No. 2
MMBTU/HR<100
Asphaltic Cement Heater with a maximum heat input capacity of 2.2 MMBtu/hr
HAP Emissions
Company Name: Mathes Asphalt Company, LLC
Address City IN Zip: 2190 Old Highway 135 South, Corydon, Indiana 47112
CP: 061-15702
Plt ID: 061-05223
Reviewer: ERG/AB
Date: July 3, 2002

HAPs - Metals

Emission Factor in lb/MMBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	3.85E-05	2.89E-05	2.89E-05	2.89E-05	8.67E-05

HAPs - Metals (continued)

Emission Factor in lb/MMBtu	Mercury 3.0E-06	Mangamese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	2.89E-05	5.78E-05	2.89E-05	1.45E-04

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (MMBTU/hr)*Emission Factor (lb/MMBTU)*8,760hrs/yr / 2,000lb/ton

Appendix A: Emission Calculations

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Potential to Emit Calculations for Conveying and Handling

Company Name: Mathes Asphalt Company, LLC

Address City IN Zip: 2190 Old Highway 135 South, Corydon, Indiana 47112

CP: 061-15702

Plt ID: 061-05223

Reviewer: ERG/AB

Date: July 3, 2002

Handle: 255 tons/hr

$$Ef = .0032 * \frac{(U/5)^{1.3}}{(M/2)^{1.4}} * k$$

where:

k_{PM10} = 0.35 (particle size multiplier)

k_{PM} = 1 (particle size multiplier)

M = 4 % moisture

U = 12 mph mean wind speed (worst case)

Ef_{PM} = 0.0038 lb/ton

Ef_{PM10} = 0.0013 lb/ton

PM = 4.23 tons/yr

PM-10 = 1.48 tons/yr

Methodology:

Use the above equation to determine the emission factor (Ef).

Then, (Ef)*(142.5 tons/yr)*(8760 hr/yr)*(1 ton/2000 lbs)

The emission factor equation was taken from AP-42, Chapter 13.2.4.

Appendix A: Emission Calculations**Summary of Emissions****Company Name: Mathes Asphalt Company, LLC****Address City IN Zip: 2190 Old Highway 135 South, Corydon, Indiana 47112****CP: 061-15702****Plt ID: 061-05223****Reviewer: ERG/AB****Date: July 3, 2002****Uncontrolled Emissions in tons/year**

	PM	PM-10	SO2	NOx	VOC	CO	HAPs
Asphalt Dryer	31273	7260	266.6	90.1	0.8	18.8	9.7
Oil Heater	0.23	0.23	4.89	1.38	0.02	0.34	negligible
Paved Roads	1.000	1.000	-----	-----	-----	-----	-----
Conveying/Handling	4.2	1.48	-----	-----	-----	-----	-----
Total =	31,278	7,263	271.5	91.5	0.8	19.1	9.7

Controlled Emissions in tons/year

	PM	PM-10	SO2	NOx	VOC	CO	HAPs
Asphalt Dryer	36.9	25.7	266.6	90.1	0.8	18.8	9.70
Oil Heater	0.14	0.14	4.89	1.38	0.02	0.34	negligible
Paved Roads	1.000	1.000	-----	-----	-----	-----	-----
Conveying/Handling	4.2	1.48	-----	-----	-----	-----	-----
Total =	42.3	28.3	271.5	91.5	0.8	19.1	9.7